

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Lin Zhi et al. Art Unit : 1623
Serial No. : 10/080,503 Examiner : Lawrence E. Crane, Ph.D.
Filed : February 22, 2002 Cust. No. : 20985
Conf. No. : 8671
Title : TRICYCLIC QUINOLINONE AND TRICYCLIC QUINOLINE ANDROGEN
RECEPTOR MODULATOR COMPOUNDS AND METHODS

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

**SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT IN
ACCORDANCE WITH 37 C.F.R. §§ 1.97-1.98**

This Supplemental Information Disclosure Statement accompanies a Response to the Office Action mailed July 29, 2004. Because this Supplemental Information Disclosure Statement is filed after the receipt of a First Office Action on the Merits for the above-captioned application, a check for the filing fee of \$180.00 is enclosed. If no proper payment is enclosed herewith, as by a check being in the wrong amount, unsigned, post-dated, otherwise improper or informal, or even entirely missing, the Commissioner is authorized to charge the unpaid amount to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. § 1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§ 1.97-1.98. Forms PTO-1449 (3 pages) and copies of the cited non U.S. Patent documents are provided herewith.

With the exception of items AK, AL, BA and BD, the documents cited on the Form PTO-1449 are in the English language. German Patent Application No. DE 2427409 (item AK), which is in the German language, is provided with an English language equivalent, US

CERTIFICATE OF MAILING BY "EXPRESS MAIL"
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Date of Deposit January 31, 2005
I hereby certify that this paper is being deposited with the United States Postal "Express Mail Post Office to Addressee" Service under 37 CFR § 1.10 on the date indicated above and is addressed to: Commissioner for Patents, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA, 22313-1450.

Stephanie L. Seldman

Patent No. 3,919,238 (item AB). Japanese Patent Application No. 50-25595 (item AL), with is in the Japanese language, is provided with an English language abstract (item AU). The publication by Lancelot et al. (item BA), which is in the French language, is provided with an English language abstract on the first page of the article. Lastly, Ohta et al (item BD) is in the Japanese language. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following pending U.S. and International Applications that have one or more common inventors and/or are commonly owned:

Docket No.	U.S.S.N.	Filed	Publ. No.
007002/1033B	09/277,405	03/26/99	n/a
033001/1051	09/463,542	01/21/00	n/a
017001/1081	10/080,926	02/22/02	20020183346
018001/1082	10/080,503	02/22/02	20020183314
051001/1814	10/211,969	08/01/02	n/a
013002/1062B	10/238,363	09/09/02	20030186970
014002/1066B	10/329,307	12/23/02	20030149268
005003/1028C	10/360,580	02/05/03	20040019072
016002/1077B	10/435,520	05/09/03	20040049072
020001/1088	10/684,229	10/10/03	20040152718
057001/1091	10/684,227	10/10/03	20040147530
003014/1014N	10/739,933	12/17/03	20040186132
002007/1002F	08/141,246	10/22/93	n/a
002009/1002H	08/141,496	10/22/93	n/a
004002/1026B	08/484,487	06/07/95	n/a
004003/1026C	10/847,732	05/17/04	2004-0209839
036006/1031F	09/496,514	02/02/00	n/a
035002/1059B	10/229,649	08/27/02	2003-0013766
013002/1062B	10/238,363	09/09/02	2003-0186970
017001/1081	10/080,926	02/22/02	2002-0183346
048001/1087	10/684,212	10/10/03	2004-0152717

Docket No.	Int'l. No.	Filed	Publ. No.
057WO1/1091PC	PCT/US03/24416	08/04/03	WO2004/033459
020WO1/1088PC	PCT/US03/24419	08/04/03	WO2004/033460
048WO1/1087PC	PCT/US03/24420	08/04/03	WO2004/033461
022WO1/1096PC	PCT/US04/022907	07/16/04	Awaiting
023WO1/1097PC	PCT/US04/023788	07/16/04	Awaiting
024WO1/1098PC	PCT/US04/023093	07/16/04	Awaiting
026WO1/1100PC	PCT/US04/023010	07/16/04	Awaiting
030WO1/1111PC	PCT/US04/027483	08/23/04	Awaiting

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Attorney's Docket No.: 18202-018001 / 1082

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

Applicant respectfully requests that the Examiner review the foregoing references and they be made of record in the file history of the above-captioned application.

Respectfully submitted,


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Attorney Docket No. 18202-018001 / 1082

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Substitute Form PTO-1449 (Modified)		U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 18202-018001 / 1082		Application No. 10/080,503	
List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR §1.98(b))		Applicant					
		Lin Zhi et al.					
		Filing Date February 22, 2002		Group Art Unit 1623			
U.S. Patent Documents							
Examiner Initial	Desig. ID	Document Number	Publication Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	2002/0183346	12/05/02	Zhi et al.	514	291	02/22/02
	AB	3,919,238	11/11/75	Spencer et al.	260	288	06/06/73
	AC	5,576,324	11/19/96	Kyotani et al.	514	291	10/27/94
	AD	5,696,130	12/09/97	Jones et al.	514	291	06/05/95
	AE	6,017,924	01/25/00	Edwards et al.	514	292	08/12/99
	AF	6,180,794	01/30/01	Edwards et al.	546	152	10/15/99

Foreign Patent Documents or Published Foreign Patent Applications							
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	AG	0 638 571	04/28/93	EP, A1			
	AH	00/12502	03/09/00	PCT			
	AI	02/066475	08/29/02	PCT			
	AJ	02/068427	09/06/02	PCT			
	AK	24 27 409	01/09/75	DE (DT), A1			<input checked="" type="checkbox"/> X*
	AL	50-25595	03/18/75	JP			<input checked="" type="checkbox"/> X*
	AM	96/19458	06/27/96	PCT			

X* = An English language abstract or equivalent is provided.

Other Documents (include Author, Title, Date, and Place of Publication)		
Examiner Initial	Desig. ID	Document
	AN	Bolognese et al., "Photochemistry of Ommochrome Pigments," J. Heterocyclic Chem. 25: 1243-1246 (1988)
	AO	Bolognese et al., "Oxidation of 3-Hydroxykynurenone. A Reexamination," J. Heterocyclic Chem. 25: 1247-1250 (1988)
	AP	Bolognese et al., "Photochemistry of Ommochromes and Related Compounds," J. Heterocyclic Chem. 25: 979-983 (1988)
	AQ	Boyer, M., "The management of prostate cancer," Aust. Prescr. 19:22-24 (1996) http://www.australiaprescriber.com/magazines/vol19nol/ap19-1-11.htm (accessed on 01/28/2005)
	AR	Bush et al., "Sample-distance Partial Least Squares: PLS optimized for many variables, with application to CoMFA," Journal of Computer-Aided Molecular Design 7(5): 587-619 (1993)
	AS	Castillo, P. and J.C. Rodriguez-Ubis, "A high-yield method for the methylation of <i>o</i> -dihydroxyaromatic compounds: synthesis of methylenedioxycoumarins," Synthesis pp. 839-840 (1986)

Examiner Signature	Date Considered
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List of Patents and Publications for Applicant's Information Disclosure Statement (37 CFR §1.98(b))		Applicant Lin Zhi et al.		
		Filing Date February 22, 2002	Group Art Unit 1623	

Other Documents (include Author, Title, Date, and Place of Publication)

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	AT	Chemical Abstracts vol. 54, no.8821, (1960) Mustafa et al., "Photochemical reaction in sunlight. Experiments with benzo[<i>k</i>]quinoline-5,6-quinone, monoamine and monoxime derivatives in sunlight and in dark," <i>J. A. Chem. Soc.</i> 81:3409-3413 (1959)
	AU	Chemical Abstracts vol. 83, no.179036, page 577 (1975) JP 50-25595 published 03/18/75, entitled "9-Halothiazoloquinolines"
	AV	Claman et al., "SOGC clinical practice guidelines. Hirsutism: evaluation and treatment," <i>J Obstet Gynaecol Can.</i> 24(1):62-7 (2002)
	AW	Debenedetti et al., "Isopurasol, a coumarin from <i>Pterocaulon virginatum</i> ," <i>Phytochemistry</i> 51: 701-703 (1999)
	AX	Ishii et al., "Formation of Hydroxanthommatin-Derived Radical in the Oxidation of 3-Hydroxykynurenone," <i>Archives of Biochemistry and Biophysics</i> 294(2): 616-622 (1992)
	AY	Kalinin et al., "Directed <i>ortho</i> Metalation – Cross Coupling Links. Carbamoyl Rendition of the Baker-Venkatarman Rearrangement. Reiospecific Route to Substituted 4-Hydroxycoumarins," <i>Tetrahedron Letters</i> 39: 4995-4998 (1998)
	AZ	Kawamori et al., "Effects of heterocyclic amines with mammary gland carcinogenic potential on estrogenic response of uterus in ovariectomized rats," <i>Cancer Letters</i> 162: 31-37 (2001)
	BA	Lancelot et al., "Pyrido[2,3- <i>b</i>]pyrrolo[1,2- <i>a</i>]quinoxalines," <i>Chem. Pharm. Bull.</i> 31: 3160-3167 (1983) [Article in French, English abstract on first page of article]
	BB	LaMontagne et al., "Antimalarials. 13. 5-Alkoxy Analogues of 4-Methylprimaquine," <i>J. Med. Chem.</i> 25: 964-968 (1982)
	BC	McIlroy et al., "Effects of proteinase inhibitors on adenylate cyclase," <i>Biochem J.</i> 188(2): 423-435 (1980)
	BD	Ohta et al., "Juvenile hormone antagonists," <i>Kagaku to Seibutsu</i> 17(2): 92-94 (1979) [Article in Japanese]
	BE	Singh et al., "Androgen receptor antagonists (antiandrogens): structure-activity relationships," <i>Curr. Med. Chem.</i> 7(2): 211-247 (2000)
	BF	Sperry et al., "Farnesol oxidation in insects: evidence that the biosynthesis of insect juvenile hormone is mediated by a specific alcohol oxidase," <i>Insect Biochemistry and Molecular Biology</i> 31(2): 171-178 (2001)
	BG	STN CAPLUS Abstract Database Accession No. 96:6616 Akhvediani et al., "Chichibabin reaction in a series of angular pyrroloquinolines," <i>Zhurnal Organicheskoi Khimii</i> 17(7): 1542-1546 (1981)
	BH	STN CAPLUS Abstract Database Accession No. 74:3531, Chapman et al., "Substitution reactions of thieno [3,2- <i>f</i>]quinoline," <i>Journal of the Chemical Society, Section C: Organic</i> (17): 2334-2339 (1970)
	BJ	STN CAPLUS Abstract Database Accession No. 130:13934, El-Desoky et al., "Synthesis of pyrrolo-, thienopyrrolo-, and benzothienopyrroloquinolines as well as of triazoloindole derivatives," <i>Zeitschrift fuer Naturforschung B: Chemical Sciences</i> 53(10): 1216-1222 (1998)
	BJ	STN CAPLUS Abstract Database Accession No. 133:171758, Ferlin et al., "Pyrrolo-quinoline derivatives as potential antineoplastic drugs," <i>Bioorganic & Medicinal Chemistry</i> 8(6): 1415-1422 (2000)
	BK	STN CAPLUS Abstract Database Accession No. 110:75273, Gryaznov et al., "Reactivity of 1H-pyrrolo [2,3- <i>f</i>]-3H-pyrrolo[3,2- <i>f</i>]quinoline and their derivatives," <i>Izvestiya Timiryazevskoi Sel'skokhozyaistvennoi Akademii</i> (3): 185-190 (1988)

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Other Documents (include Author, Title, Date, and Place of Publication)

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	BL	STN CAPLUS Abstract Database Accession No. 128:3621, Majumdar et al., "Studies on amine oxide rearrangements: regioselective synthesis of pyrrolo [3,2-f]quinolin-7-ones," Journal of Chemical Research, Synopses (9): 310-311 (1997)
	BM	STN CAPLUS Abstract Database Accession No. 73:73505, Saksena et al., "Androgenic, antiandrogenic, and anabolic activity of azasteroids on immature castrated rats," Indian J. Med. Res. 58(4): 513-518 (1970)
	BN	STN CAPLUS Abstract Database Accession No. 87:5939, SU 548608 published 02/28/77, entitled "Pyrroloquinoline derivatives".
	BO	STN CAPLUS Abstract Database Accession No. 71:81325, SU 241441 published 04/18/69, entitled "2-Methyl-3-(beta-aminoethyl)-1H-pyrrolo [2,3-b]quinoline or 1-(beta-aminoethyl)-2-methyl-3H-pyrrolo [3,2-f]quinoline."
	BP	STN CAPLUS Abstract Database Accession No. 99:38395, Yarnashkin et al., "Synthesis of pyrroloquinolones," Khimiya Geterotsiklichesikh Soedinenii (4): 493-497 (1983)
	BQ	STN CAPLUS Abstract Database Accession No. 131:213835, Yarnashkin et al., "Reactivities of 5-, 6-, and 7- (enamino) indoles in the synthesis of pyrroloquinolines," Chemistry of Heterocyclic Compounds (New York) [Translation of Khimiya Geterotsiklichesikh Soedinenii], 34(9): 1050-1065 (1998)
	BR	STN CAPLUS Abstract Database Accession No. 56:38406, Yoshikawa et al., "Synthesis of 4,5-diaminoquinoline derivatives. I. Synthesis of pyrrolo [f] quinoline derivatives," Yakugaku Zasshi 81: 1317-1322 (1961)
	BS	STN CAPLUS Abstract Database Accession No. 92:146650, Yudin et al., "Nitropyrroloquinolines," Khimiya Geterotsiklichesikh Soedinenii (10): 1381-1385 (1979)
	BT	Willard et al., "Potential Diuretic-β-Adrenergic Blocking Agents: Synthesis of 3-[2-[1,1-Dimethylethyl]amino]-1-hydroxyethyl]-1,4-dioxino[2,3-g]quinolines," J.Org. Chem. 46: 3846-3852 (1981)

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